



Spartan Child Development Building Safe Room

Full Mitigation Best Practice Story

State-wide, Michigan

East Lansing, MI— Michigan State University received Hazard Mitigation Grant Program (HMGP) funds to include storm shelters in a new Spartan Child Development Center in 2000.



This structure, a one-story wood frame structure of residential character built on a concrete slab, was built to provide care and shelter to over 170 children and staff. Each of the eight classrooms was built with a vestibule between the main corridor and the classroom, thereby assuring close proximity to the shelters at all times. They were reinforced with concrete to provide shelter from the threat of tornadoes and high winds in excess of 250 miles per hour, allowing 20 to 25 children and adults to be protected in each room.

The 15,000-square foot storm room space contains children's lockers with a bench in front of each locker for the child to sit and remove boots or shoes. In addition, storm kits containing battery-powered lights, radios, quiet activities and snacks were placed in each room.

The safe room construction within the building was estimated at a 75 percent Federal share of \$123,750, approximately \$20,625 for each room and 7.5 percent of the total building cost.

Established in 1971, the Spartan Child Development Center is described on its Web site as a facility "dedicated to meeting the needs of children ages two weeks to seven years in an environment that nurtures and guides their individual growth and development."

With the addition of the safe room, the facility can also say it is dedicated to the safety of their children during a severe tornado event.

Hazard mitigation planning is an important aspect of a successful mitigation program. States and communities use the hazard mitigation planning process to set short and long-range mitigation goals and objectives. Hazard mitigation planning is a collaborative process whereby hazards affecting the community are identified, vulnerability to the hazards are assessed, and consensus reached on how to minimize or eliminate the effects of these hazards. In recognition of the importance of planning, States with an approved enhanced State Mitigation Plan in effect at the time of disaster declaration may receive additional HMGP funding.

Activity/Project Location

Geographical Area: **State-wide**

FEMA Region: **Region V**

State: **Michigan**

Key Activity/Project Information

Sector: **Public/Private Partnership**
Hazard Type: **Tornado**
Activity/Project Type: **Safe Rooms/Community Shelters**
Structure Type: **Concrete, Reinforced**
Activity/Project Start Date: **11/2001**
Activity/Project End Date: **04/2003**
Funding Source: **Hazard Mitigation Grant Program (HMGP)**
Funding Recipient: **Academic**
Funding Recipient Name: **Michigan State University**

Activity/Project Economic Analysis

Cost: **\$165,000.00 (Actual)**

Activity/Project Disaster Information

Mitigation Resulted From Federal
Disaster? **Yes**
Federal Disaster #: **1346 , 10/17/2000**
Value Tested By Disaster? **No**
Repetitive Loss Property? **No**

Reference URLs

Reference URL 1: **<http://www.fema.gov/government/grant/hmgp/index.shtm>**
Reference URL 2: **<http://memaonline.org/>**

Main Points

- Each of the eight classrooms was built with a vestibule between the main corridor and the classroom, thereby assuring close proximity to the shelters at all times.
- They were reinforced with concrete to provide shelter from the threat of tornadoes and high winds in excess of 250 miles per hour, allowing 20 to 25 children and adults to be protected in each room.
- The safe room construction within the building was estimated at a 75 percent Federal share of \$123,750, approximately \$20,625 for each room and 7.5 percent of the total building cost.



Children feel safe in a familiar environment that serves as both a coat room and a safe room.



During storms, kids can play with the games that are provided in the storm kits supplied to each classroom.



The Spartan Child Development Center has eight safe rooms that can hold up to 25 people each.